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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,325	06/30/2003	Donald Brian Eidson	01827.0064.NPUS00	4049
46903 HOWREY LLF	7590 05/30/200	7	EXAMINER	
C/O IP DOCKETING DEPARTMENT			VO, DON NGUYEN	
2941 FAIRVIEW PARK DRIVE SUITE 200 FALLS CHURCH, VA 22042-2924		200	ART UNIT	PAPER NUMBER
			2611	
			MAIL DATE	DELIVERY MODE
			05/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
Office Action Summan	10/611,325	EIDSON, DONALD BRIAN			
Office Action Summary	Examiner	Art Unit			
•	DON N. VO	2611			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 15 h	<u>farch 2007</u> .				
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowa	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 2 and 17-20 is/are allowed. 6) Claim(s) 1 and 3-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Paper No(s)/Mail Date S. Retert and Tradement Office					

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DETAILED ACTION

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Acknowledgment

This Office Action is responsive to the Amendment filed on 3/15/2007.

Accordingly, claims 1-20 are pending in the instant application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 3, 4, 8-11, 15, and 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Terry (US 6,865,236; new art).

Regarding claims 1, 3, 4, 8-11, 15, and 16, Terry, as shown in figures 1 and 5, teaches a system for mapping the digital signal into BPSK symbols wherein the successive bits of digital data are alternatively mapped into different orthogonal constellations. See also column 3, lines 3-19 and column 5, line 17 to column 6, line 17.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 5-7 and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Terry (6,865,236) in view of Kotake (US 6,940,837).

Terry teaches all subject matter claimed except for differential encoding and spreading the input data before BPSK mapping. See explanation of paragraph 3 above. However, Kotake, from the same field of endeavor and as shown in figure 6A, teaches differential encoding (18) and spreading (20, 6) the input data before BPSK modulating (21). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Terry by employing the differential encoder and spreader before BPSK modulating as taught by Kotake so as to provide spread spectrum communications.

Allowable Subject Matter

6. Claims 2 and 17-20 are allowed over prior art of record.

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Response to Arguments

7. Applicant's arguments with respect to claims 1 and 3-16 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Reference Kaneko et al (US 6,862,321) is cited because it is pertinent to BPSK mapping. However, the cited reference fails to teach or suggest, in combination, the further arrangements of the third logic as recited in claim 2 and the corresponding method claim 17 and further limitations of its dependent claims 18-20.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N. VO whose telephone number is (571) 272-3018. The examiner can normally be reached on MON FRI (9:00-6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DON N. VO

Primary Examiner

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